



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

8/28/17 *RS*

Mr. Alex Patterson  
Pretreatment Coordinator  
SAPA Extruder, Inc. – Mountain Top Operations  
330 Elmwood Avenue – Crestwood Industrial park  
Mountain Top, Pennsylvania 18707

Re: Inspection Report/Pollutant Monitoring  
PAP245985

Dear Mr. Patterson:

The Environmental Protection Agency conducted an inspection at your facility in Export, PA on May 24, 2017. A copy of the inspection report (IR) is enclosed for your use. The IR summary notes that no significant changes have occurred at the facility.

The IR concludes that the facility is in compliance with all aspects of the three major compliance categories indicated in §J. Should you have any questions, please contact me at (215) 814-2714 or by email at [shuart.ryan@epa.gov](mailto:shuart.ryan@epa.gov).

Sincerely,

Ryan Stuart (3WP41)  
NPDES Permits and Enforcement  
Water Protection Division

Enclosure

cc: Clay Long, Environmental Programs Manager, Sapa Extruder, Inc. (w/ enclosure)  
Michael Ernest, Plant Manager, Sapa Extruder, Inc. (w/ enclosure)  
Matt Sullivan, Environmental Specialist, Entech Engineering (w/o enclosure)  
BR Patel, PADEP- Northeast Regional Office (w/enclosure)  
Sean Furjanic, PADEP Central Office (w/o enclosure)





**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029**

**June 7, 2017**

**SUBJECT: Pre-Treatment Inspection Report for Sapa Extrusion Inc.**

**FROM:** Garth N. Connor, OECEJ (3EC10)  
Multi-Media Inspector – Philadelphia Office

**TO:** John Lovell  
Pre-Treatment Coordinator (3WP41)

**THRU:** Jose Jimenez, OECEJ (3EC10)  
Chief, Enforcement & Compliance Assistance Branch

Attached you will find a copy of the Pre-Treatment Inspection Report for the Sapa Extrusion facility at 330 Elmwood Avenue in Mountain Top, Luzerne County, Pennsylvania. The facility is located within the Crestwood Industrial Park at that address. This pre-treatment inspection was conducted on May 24, 2017. The facility does aluminum extrusion and anodizing, and is an industrial user of the nearby Mountain Top Joint Sanitary Authority. If you have any questions or comments on this inspection report, please contact me at 215-814-3209.



## Sapa Extrusion Pre-Treatment Inspection Summary

The EPA inspector arrived at the facility & began the inspection with an opening conference attended by a number of Sapa Extrusion (Sapa) staff and managers in a large conference room. Alex Patterson, Sapa's Health & Safety Manager, Michael Ernest, Sapa's Plant Manager and Michael Brogdon, Sapa's Value Added Manager were all present for the meeting, as well as their environmental contractor, Matt Sullivan. Mr. Sullivan works for Entech Engineering Inc. and assists Sapa with their overall environmental compliance and their sampling requirements with respect to the Clean Water Act. The EPA inspector showed his credentials at the start of the opening conference, and talked about the scope of the pre-treatment inspection. The state of Pennsylvania (PADEP's Scranton Wilkes Barre Office) was invited to this inspection but did not attend. The Sapa staff explained the details of their extensive pre-treatment program at the facility, which discharges about 35,000 gallons a day to the nearby Mountain Top Joint Sanitary Authority. The Mountain Top wastewater plant itself doesn't currently have a pre-treatment program for any of its industrial users, but is about to start a pre-treatment program in the near future. The facility's current effluent limits were directly issued by EPA Region III in March, 2017 (**Attachment #1 – Discharge Limits & Monitoring Requirements**).

The inspector then took a tour of the facility's processes and pre-treatment area. Sapa is a large multi-national corporation that originally started in Sweden. It has approximately 250 employees at this location and operates three shifts per day. The facility's operation is considered part of Standard Industrial Classification Code 3354, establishments engaged in aluminum extrusion. The facility also does anodizing or coating of some of its aluminum products. The facility starts with large aluminum billets, which are about the size and shape of a telephone pole. The inspection photographs are in **Attachment #2 – Inspection Photographs**. **Photograph #1** is a photograph of four aluminum billets that are subsequently sliced into smaller pieces and then melted down or extruded into various aluminum products, such as an aluminum door frame. **Photograph #2** shows several of the facility's mixing tanks in their pre-treatment process. The facility does neutralization of their wastewater, but also adds polymer to the wastewater to remove metals by forming solids. The solids are later removed from the wastewater, and then dried. **Photograph #3** shows some of the solids removed by the pre-treatment process which are trucked to a nearby landfill for disposal. **Photograph #4** is the two flow meters that the facility has operating next to each other, adjacent to their effluent sampling location. The facility does significantly more sampling and analysis than it is required to do by their permit. **Photograph #5** is the facility's composite sampler for composite sampling. **Photograph #6** is the three different pH buffer bottles used for proper calibration of their pH meter. **Photograph #7** shows the sampling location where facility staff collect all their wastewater samples. The facility had an excellent pre-treatment program and didn't appear to have any compliance problems. They informed the EPA inspector that they did have a separate NPDES permit just for their storm water runoff. They also have two spill plans, a Preparedness Prevention and Contingency Plan as well as a Spill Prevention Control and Countermeasure Plan. Hawk Mountain Labs does the sampling analysis for Sapa, and provides the results in about 7 to 10 days.

## **Attachment #1 - Discharge Limits & Monitoring Requirements**





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION III  
1650 Arch Street  
Philadelphia, Pennsylvania 19103-2029

MAR 13 2017

Mr. Clay Long  
Environmental Programs Manager  
SAPA Extruder, Inc. – Mountain Top Operations  
330 Elmwood Avenue – Crestwood Industrial park  
Mountain Top, Pennsylvania 18707

Re: Discharge Limitations & Pollutant Monitoring Requirements  
PAP245985

Dear Mr. Long:

On December 12<sup>th</sup>, 2013 the Environmental Protection Agency (EPA) issued a Discharge Limitations and Monitoring Requirements package to SAPA Extruder, Inc. for wastewater discharges to a publically owned treatment works. Based on information provided since that time, EPA is revising the standards listed in that notification package. Production data collected from January 1<sup>st</sup>, 2012 to December 31<sup>st</sup>, 2016 was used to update SAPA Extruder's discharge limitations.

Please note changes have been made to the reporting of production data. For future reports, production shall be reported for each regulated process (see attachment 1) or as a total production and a percentage of total production through each process.

As a reminder, in the event that a violation occurs, you are required to notify EPA within 24 hours of becoming aware of the violation. In addition, you are required to resample for those pollutants for which the violation occurred, and submit the results of the resampling within 30 days of becoming aware of the violation. Although not specifically required by the regulations, the 30-day report should also include the cause of the violation and the steps taken to ensure that it does not recur.

If you have any questions, please contact Ryan Shuart at (215) 814-2714, or by email at [shuart.ryan@epa.gov](mailto:shuart.ryan@epa.gov), or John Lovell at (215) 814-5790 or by email at [lovell.john@epa.gov](mailto:lovell.john@epa.gov).

Sincerely,



David McGuigan, Ph.D.  
Associate Director

Office of NPDES Permits and Enforcement

Enclosure

cc: BR Patel, PADEP- Northeast Regional Office (w/enclosure)  
Sean Furjanic, PADEP Central Office (w/out enclosure)



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Discharge Limitations and Monitoring Requirements for:  
 SAPA Extruders  
 330 Elmwood Avenue  
 Crestwood Industrial Park - Mountaintop PA 18707  
 PAP245985

Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Limitations (lbs./day) (2)		Monitoring Requirements (4)	
	Daily Maximum	Monthly Average	Frequency	Sample Type (5)
Flow (gpd)			1/month	Measured
Production Rate #/day (1)			1/month	Record
pH (3)			1/month	4 Grabs/low chart read
Chromium	0.5341	0.2162	1/6 months	4 Grabs
Zinc	1.4601	0.6051	1/6 months	4 Grabs
Cyanide	0.2880	0.1164	1/6 months	4 Grabs
Oil & Grease (6)	14.2960	14.2960	1/6 months	4 Grabs

1. Production Rate is the average production per discharge day processed through a given unit operation and is calculated by dividing the total production during the six-month reporting period by the number of discharge days during the six-month reporting period. Production shall be reported for each regulated process (see attachment 1) or as a total production and a percentage of total production through each process. The production rate used for each process is shown on attachment 1. Changes to the production rate will result in changes to the limits.
2. Pollutant discharge allocations are cumulative for the core (quench, etc.) and each ancillary (bath, rinse/multiple rinse, scrubber) operation.
3. pH shall not be less than 5.0 standard units at any time and shall be monitored at least once a month or continuously by a pH monitoring device.
4. Samples taken in compliance with the monitoring requirements specified above shall be collected from the WWTS1 effluent (see Attachment 2). Prior to discharge of any other process wastes, notification must be provided to both EPA and the local POTW.
5. Compliance sampling shall be conducted during the discharge period of 1 calendar day or 24-hour period and shall consist of a series of 4 separate grab samples taken over the discharge period. With the exception of pH, grab samples may be composited for a single analysis. Grab samples taken during a 24-hour period for oil & grease may be combined in the lab prior to analysis or analyzed separately and the test results averaged to derive a daily maximum value. Grab samples taken during a 24-hour period for cyanide and metals may be combined in the lab or in the field prior to analysis or analyzed separately and the test results averaged to derive a daily maximum value (see 40 CFR 403.12(g)(3)).
6. SAPA Extruders has chosen to conduct Oil and Grease monitoring as an Alternative to TTO monitoring.



# Attachment 1

## SAPA Process Specific Production Rates

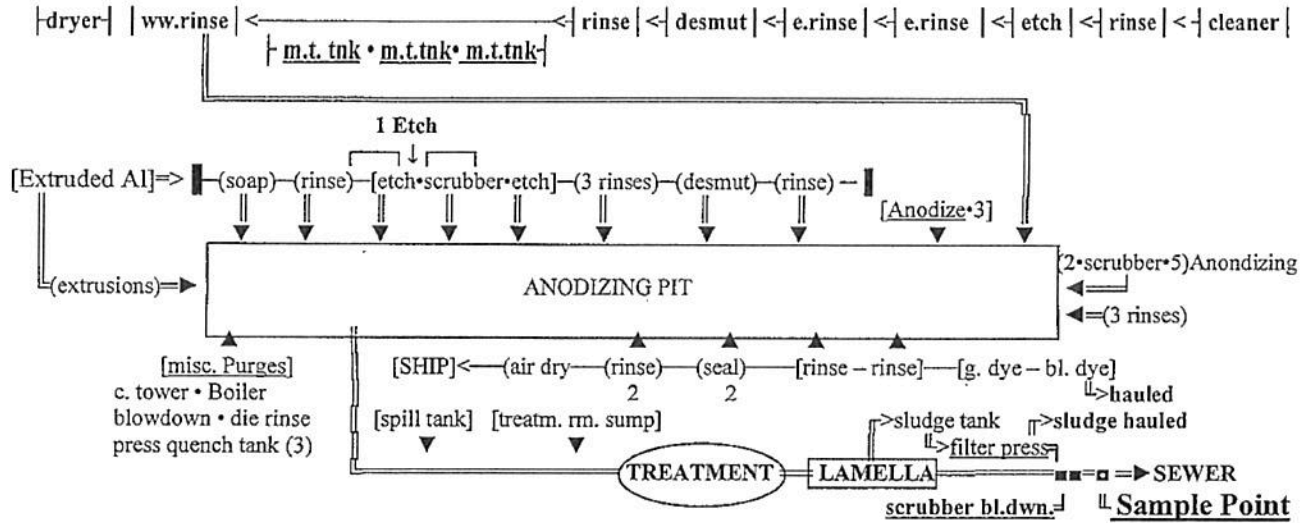
Process	Type	% of Total Production million off lbs/day	Production Through Process million off lbs/day
Average Total Production - million off lbs/day	0.105518		
Core	Regulated	100	0.105518
Extrusion Press Leakage	Regulated	100	0.105518
Press Heat Treatment	Regulated	100	0.105518
Soap	Regulated	43	0.045373
Soap Rinse	Regulated	43	0.045373
Acid Etch	Regulated	43	0.045373
Acid Etch Rinse	Regulated	43	0.045373
Etch Desmut	Regulated	43	0.045373
Etch Desmut Rinse	Regulated	43	0.045373
NaOH Etch B	Regulated	43	0.045373
NaOH Etch Rinse #1	Regulated	43	0.045373
NaOH Etch A	Regulated	43	0.045373
NaOH Etch Rinse #2 & #3	Regulated	43	0.045373
NaOH Etch Scrubber	Regulated	43	0.045373
Bright Dip	Regulated	43	0.045373
Bright Dip Rinse #1, #2, & #3	Regulated	43	0.045373
Bright Dip Scrubber	Regulated	43	0.045373
Desmut	Regulated	43	0.045373
Desmut Rinse	Regulated	43	0.045373
Anodize A	Regulated	43	0.045373
Anodize Rinse #1	Regulated	43	0.045373
Anodize B	Regulated	43	0.045373
Anodize Rinse #2	Regulated	43	0.045373
Anodize C	Regulated	43	0.045373
Anodize Rinse #3	Regulated	43	0.045373
Anodize Scrubber	Regulated	43	0.045373
Black Dye	Regulated	2	0.002110
Black Dye Rinse	Regulated	2	0.002110
Gold Dye	Regulated	0.2	0.000211
Gold Dye Rinse	Regulated	0.2	0.000211
Nickel Seal Rinse	Regulated	43	0.045373
Nickel Seal	Regulated	43	0.045373
Nickel Seal	Regulated	43	0.045373
Nickel Seal Rinse	Regulated	43	0.045373
Fabrication Soap	Regulated	4	0.004221
Fabrication Soap Rinse	Regulated	4	0.004221
Fabrication Etch	Regulated	4	0.004221
Fabrication Etch Rinse	Regulated	4	0.004221
Fabrication Desmut	Regulated	4	0.004221
Fabrication Desmut Rinse	Regulated	4	0.004221
Fabrication Final Rinse	Regulated	4	0.004221

Core includes any or all of the following: extrusion die cleaning, dummy block cooling, stationary casting, artificial aging, annealing, degreasing, and sawing.

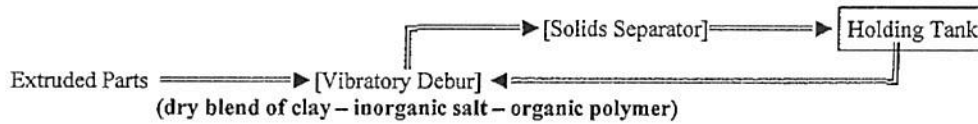
## Attachment 2

### SAPA Extruders Flow Schematic

#### Extrusion/Anodizing Process... WWTS-1 (5/4/15)



#### Vibratory Debur Process... Closed Loop Process (SAPA 5/8/13)



#### Regulated Hauled Wastewater Processes (SAPA 5/4/2015)

no dump -> (scrubber/bl.dwn) -> hauled  
 (br.dip)  
 (desmut) -> (rinse) -> (3 rinses) -> hauled



## Appendix A

### Requirements for Industrial Users of Publicly Owned Treatment Works

## A. Definitions

**"Act"** means the Federal Water Pollution Control Act, also known as the Clean Water Act, as amended, 33 U.S.C. 1251, et seq.

**"Authorized Representative"** means (1) a responsible corporate officer, if the Industrial User is a corporation. A responsible corporate officer means (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to ensure long-term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) By a general partner or proprietor if the Industrial User is a partnership or sole proprietorship respectively.

(3) By a duly authorized representative of the individual designated in paragraph (1) or (2) of this section if:

- (i) The authorization is made in writing by the individual described in paragraph (1) or (2);
- (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and
- (iii) The written authorization is submitted to the Control Authority.

(4) If an authorization under paragraph (3) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (3) of this section must be submitted to the Control Authority prior to or together with any reports to be signed by an authorized representative.

**"Best Management Practices or BMPs"** means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the prohibitions in 40 CFR 403.5(a)(1) and (b). BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

**"Bypass"** means the intentional diversion of wastestreams from any portion of an Industrial User's treatment facility.

**"Control Authority"** means (1) The POTW if the POTW pretreatment program has been approved in accordance with the requirements of 40 CFR section 403.11; or (2) the EPA if the POTW does not have an approved pretreatment program.

**"Effluent Data"** means (1) with reference to any source of discharge of any pollutant (as that term is defined in section 502(6) of the Act, 33 U.S.C. 1362(6))

- (i) Information necessary to determine the identity, amount, frequency, concentration, temperature, or other characteristics (to the extent related to water quality) of any pollutant which has been discharged by the source (or of any pollutant resulting from any discharge from the source), or any combination of the foregoing;
- (ii) Information necessary to determine the identity, amount, frequency, concentration, temperature, or other characteristics (to the extent related to water quality) of the pollutants which, under an applicable standard or limitation, the source was authorized to discharge (including, to the extent necessary for such purpose, a description of the manner or rate of operation of the source); and
- (iii) A general description of the location and/or nature of the source to the extent necessary to identify the source and to distinguish it from other sources (including, to the extent necessary for such purposes, a description of the device, installation, or operation constituting the source).

(2) Notwithstanding paragraphs (i) through (iii) above, the following information shall be considered to be *effluent data* only to the extent necessary to allow EPA to disclose publicly that a source is (or is not) in compliance with an applicable standard or limitation, or to allow EPA to demonstrate the feasibility, practicability, or attainability (or lack thereof) of an existing or proposed standard or limitation:

- (i) Information concerning research, or the results of research, on any product, method, device, or installation (or any component thereof) which was produced, developed, installed, and used only for research purposes; and
- (ii) Information concerning any product, method, device, or installation (or any component thereof) designed and intended to be marketed or used commercially but not yet so marketed or used.

**"Indirect Discharge" or "Discharge"** means the introduction of pollutants into a POTW from any non-domestic source regulated under section 307(b), (c) or (d) of the Act.

**"Industrial User" or "User"** means a source of Indirect Discharge.

**"Interference"** means a Discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

- (1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
- (2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and



regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA) the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

**"National Pretreatment Standard," "Pretreatment Standard," or "Standard"** means any regulation containing pollutant discharge limits promulgated by the EPA in accordance with section 307(b) and (c) of the Act, which applies to Industrial Users. This term includes prohibitive discharge limits and local limits established pursuant to 40 CFR section 403.5.

**"New Source"** means (1) any building, structure, facility or installation from which there is or may be a Discharge of pollutants, the construction of which commenced after the publication of proposed Pretreatment Standards under section 307(c) of the Act which will be applicable to such source if such Standards are thereafter promulgated in accordance with that section, *provided that*:

- (i) The building, structure, facility or installation is constructed at a site at which no other source is located; or
- (ii) The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or
- (iii) The production or wastewater generating processes of the building, structure, facility or installation are substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source should be considered.

(2) Construction on a site at which an existing source is located results in a modification rather than a new source if the construction does not create a new building, structure, facility or installation meeting the criteria of paragraphs (ii), or (iii) above but otherwise alters, replaces, or adds to existing process or production equipment.

(3) Construction of a new source as defined under this paragraph has commenced if the owner or operator has:

- (i) Begun, or caused to begin as part of a continuous onsite construction program:
  - (A) Any placement, assembly, or installation of facilities or equipment; or
  - (B) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
- (ii) Entered into a binding contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a



reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.

***"Pass Through"*** means a Discharge which exits the POTW into a waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

***"Publicly Owned Treatment Works" or "POTW"*** means a treatment works as defined by section 212 of the Act, which is owned by a State or municipality (as defined by section 502(4) of the Act). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes, and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in section 502(4) of the Act, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works.

***"POTW Treatment Plant"*** means that portion of the POTW which is designed to provide treatment (including recycling and reclamation) of municipal sewage and industrial waste.

***"Pretreatment Requirements"*** means any substantive or procedural requirement related to Pretreatment, other than a National Pretreatment Standard, imposed on an Industrial User.

***"Severe Property Damage"*** means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

***"Upset"*** means an exceptional incident in which there is unintentional and temporary noncompliance with categorical Pretreatment Standards because of factors beyond the reasonable control of the Industrial User. An Upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

## **B. National Pretreatment Standards**

***General Prohibitions*** - A User may not introduce into any POTW any pollutant(s) which cause Pass Through or Interference. These general prohibitions and the specific prohibitions listed below apply to each User introducing pollutants into a POTW whether or not the User is subject to other National Pretreatment Standards or any national, State, or local Pretreatment Requirements.

***Specific Prohibitions*** - In addition, the following pollutants shall not be introduced into a POTW:

(1) Pollutants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21.

(2) Pollutants which will cause corrosive structural damage to the POTW, but in no case Discharges with pH lower than 5.0, unless the works is specifically designed to accommodate such Discharges;

(3) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW resulting in Interference;

(4) Any pollutant, including oxygen demanding pollutants (BOD, etc.) released in a Discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW.

(5) Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW Treatment Plant exceeds 40°C (104°F) unless the Approval Authority, upon request of the POTW, approves alternate temperature limits.

(6) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through;

(7) Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems;

(8) Any trucked or hauled pollutants, except at discharge points designated by the POTW.

***Production Change Notification*** - Any Industrial User operating under a control mechanism incorporating limits calculated from a production based standard shall notify the Control Authority within two (2) business days after the User has a reasonable basis to know that the production level will significantly change within the next calendar month. Any User not notifying the Control Authority of such anticipated change will be required to meet the mass or concentration limits in its control mechanism that were based on the original estimate of the long term average production rate.

***Dilution Prohibited as Substitute for Treatment*** - Except where expressly authorized to do so by an applicable Pretreatment Standard or Requirement, no Industrial User shall ever increase the use of process water, or in any other way attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a Pretreatment Standard or Requirement.

## **C. Reporting Requirements**

***Baseline Monitoring Report*** - Within 180 days after the effective date of a categorical Pretreatment Standard, or 180 days after the final administrative decision made upon a category determination submission under 40 CFR section 403.6(a)(4), whichever is later, existing Industrial Users subject to such categorical Pretreatment Standards and currently discharging to or scheduled to discharge to a POTW shall be required to submit to the Control Authority a



report which contains the information listed in paragraphs (1) - (7) below. At least 90 days prior to commencement of discharge, New Sources, and sources that become Industrial Users subsequent to the promulgation of an applicable categorical Standard, shall be required to submit to the Control Authority a report which contains the information listed in paragraphs (1) - (5) below. New sources shall also be required to include in this report information on the method of pretreatment the source intends to use to meet applicable pretreatment standards. New Sources shall give estimates of the information requested in paragraphs (4) and (5) of this section:

- (1) Identifying information. The User shall submit the name and address of the facility including the name of the operator and owners;
- (2) Permits. The User shall submit a list of any environmental control permits held by or for the facility;
- (3) Description of operations. The User shall submit a brief description of the nature, average rate of production, and Standard Industrial Classification of the operation(s) carried out by such Industrial User. This description should include a schematic process diagram which indicates points of Discharge to the POTW from the regulated processes.
- (4) Flow measurement. The User shall submit information showing the measured average daily and maximum daily flow, in gallons per day, to the POTW from each of the following:
  - (i) Regulated process streams; and
  - (ii) Other streams as necessary to allow use of the combined wastestream formula of 40 CFR section 403.6(e).

The Control Authority may allow for verifiable estimates of these flows where justified by cost or feasibility considerations.

- (5) Measurement of pollutants.
  - (i) The user shall identify the Pretreatment Standards applicable to each regulated process;
  - (ii) In addition, the User shall submit the results of sampling and analysis identifying the nature and concentration (or mass, where required by the Standard or Control Authority) of regulated pollutants in the Discharge from each regulated process. Both daily maximum and average concentration (or mass, where required) shall be reported. The sample shall be representative of daily operations. In cases where the Standard requires compliance with a Best Management Practice or pollution prevention alternative, the User shall submit documentation as required by the Control Authority or the applicable Standards to determine compliance with the Standard;
- (6) Certification. A statement, reviewed by an authorized representative of the Industrial User and certified to by a qualified professional, indicating whether Pretreatment Standards are being met on a consistent basis, and, if not, whether additional operation and maintenance (O and M) and/or additional pretreatment is required for the Industrial User to meet the Pretreatment Standards and Requirements; and
- (7) Compliance schedule. If additional pretreatment and/or operation and maintenance (O and M) will be required to meet the Pretreatment Standards; the shortest schedule by which the Industrial User will provide such additional pretreatment and/or O and M. The completion date in this schedule shall not be later than the compliance date established for

the applicable Pretreatment Standard.

***Compliance schedule for meeting categorical Pretreatment Standards*** - Not later than 14 days following each date in the schedule and the final date for compliance, the Industrial User shall submit a progress report to the Control Authority including, at a minimum, whether or not it complied with the increment of progress to be met on such date and, if not, the date on which it expects to comply with this increment of progress, the reason for delay, and the steps being taken by the Industrial User to return the construction to the schedule established. In no event shall more than 9 months elapse between such progress reports to the Control Authority.

***Report on compliance with categorical pretreatment standard deadline*** - Within 90 days following the date for final compliance with applicable categorical Pretreatment Standards or in the case of a New Source following commencement of the introduction of wastewater into the POTW, any Industrial User subject to Pretreatment Standards and Requirements shall submit to the Control Authority a report containing the information described in 40 CFR 403.12(b) (4) - (6) (see paragraphs (4) - (6) of the Baseline Monitoring Report section, above).

***Periodic reports on continued compliance*** - (1) Any Industrial User subject to a categorical Pretreatment Standard, after the compliance date of such Pretreatment Standard, or, in the case of a New Source, after commencement of the discharge into the POTW, shall submit to the Control Authority during the months of June and December, unless required more frequently in the Pretreatment Standard or by the Control Authority or the Approval Authority, a report indicating the nature and concentration of pollutants in the effluent which are limited by such categorical Pretreatment Standards. In addition, this report shall include a record of measured or estimated average and maximum daily flows for the reporting period except that the Control Authority may require more detailed reporting of flows. In cases where the Pretreatment Standard requires compliance with a Best Management Practice (or pollution prevention alternative), the User shall submit documentation required by the Control Authority or the Pretreatment Standard necessary to determine the compliance status of the User. At the discretion of the Control Authority and in consideration of such factors as local high or low flow rates, holidays, budget cycles, etc., the Control Authority may agree to alter the months during which the above reports are to be submitted.

(2) Where the Control Authority has imposed mass limitations on Industrial Users, the report shall indicate the mass of pollutants regulated by Pretreatment Standards in the Discharge from the Industrial User.

(3) For Industrial Users subject to categorical Pretreatment Standards expressed in terms of allowable pollutant discharge per unit of production (or other measure of operation), the report shall include the User's actual average production rate for the reporting period.

***Notice of potential problems, including slug loading*** - All Industrial Users shall notify the POTW immediately of all discharges that could cause problems to the POTW, including any slug loadings, as defined by 40 CFR Part 403.5(b), by the Industrial User.

***Repeat Sampling*** - If sampling performed by an Industrial User indicates a violation, the user shall notify the Control Authority within 24 hours of becoming aware of the violation. The



User shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Control Authority within 30 days after becoming aware of the violation.

***Representative Sampling*** - Sampling and analysis performed during the period covered by a self-monitoring report shall be representative of conditions occurring during the reporting period. Grab samples must be used for pH, cyanide, total phenols, oil and grease, sulfide, and volatile organic compounds. For all other pollutants, 24-hour composite samples must be obtained through flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the Control Authority. Where time-proportional composite sampling or grab sampling is authorized by the Control Authority, the samples must be representative of the discharge. Using protocols (including appropriate preservation) specified in 40 CFR Part 136 and appropriate EPA guidance, multiple grab samples collected during a 24-hour period may be composited prior to the analysis as follows: For cyanide, total phenols, and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil & grease the samples may be composited in the laboratory. Composite samples for other parameters unaffected by the compositing procedures as documented in approved EPA methodologies may be authorized by the Control Authority as appropriate.

***Sample Analysis*** - All analyses shall be performed in accordance with procedures established by the Administrator pursuant to section 304(h) of the Act and contained in 40 CFR Part 136 and amendments thereto or with any other test procedures approved by the Administrator. (See, sections 136.4 and 136.5.) Sampling shall be performed in accordance with the techniques approved by the Administrator. Where 40 CFR Part 136 does not include sampling or analytical techniques for the pollutants in question, or where the Administrator determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed using validated analytical methods or any other sampling and analytical procedures, including procedures suggested by the POTW or other parties, approved by the Administrator.

***Additional Monitoring*** - If an Industrial User monitors any regulated pollutant at the appropriate sampling location more frequently than required by the Control Authority, using the procedures prescribed in 40 CFR section 136, the results of this monitoring shall be included in the self-monitoring report.

***Notification of changed discharge*** - All Industrial Users shall promptly notify the Control Authority and the POTW in advance of any substantial change in the volume or character of pollutants in their discharge, including the listed or characteristic hazardous wastes for which the Industrial User has submitted an initial notification.

***Signatory requirements for industrial user reports*** - The required reports shall be signed by an authorized representative of the Industrial User and include the following certification statement:

I certify under penalty of law that this document and all attachments were

prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

***Provision Governing Fraud and False Statements*** - The reports and other documents required to be submitted or maintained under this section shall be subject to:

- (1) The provisions of 18 U.S.C. section 1001 relating to fraud and false statements;
- (2) The provisions of sections 309(c)(4) of the Act, as amended, governing false statements, representation or certification; and
- (3) The provisions of section 309(c)(6) regarding responsible corporate officers.

***Record-keeping requirements*** - (1) Any Industrial User subject to the reporting requirements established in this section shall maintain records of all information resulting from any monitoring activities required by this section, including documentation associated with Best Management Practices. Such records shall include for all samples:

- (i) The date, exact place, method, and time of sampling and the names of the person or persons taking the samples;
- (ii) The date(s) analyses were performed;
- (iii) Who performed the analyses;
- (iv) The analytical techniques/methods used; and
- (v) The results of such analyses.

(2) Any industrial User or POTW subject to the reporting requirements established in this section (including documentation associated with Best Management Practices) shall be required to retain for a minimum of 3 years any records of monitoring activities and results (whether or not such monitoring activities are required by this section) and shall make such records available for inspection and copying by the EPA, State, and POTW. This period of retention shall be extended during the course of any unresolved litigation regarding the Industrial User or POTW or when requested by the EPA or State.

***Hazardous Waste Notification*** - (1) The Industrial User shall notify the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste under 40 CFR part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the Industrial User discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the Industrial User: An identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream



expected to be discharged during the following twelve months. All notifications must take place within 180 days of the effective date of this rule. Industrial users who commence discharging after the effective date of this rule shall provide the notification no later than 180 days after the discharge of the listed or characteristic hazardous waste. Any notification under this paragraph need be submitted only once for each hazardous waste discharged. However, notifications of changed discharges must be submitted under 40 CFR 403.12(j). The notification requirement in this section does not apply to pollutants already reported under self-monitoring requirements of 40 CFR 403.12 (b), (d), and (e).

(2) Dischargers are exempt from the requirements of paragraph (1) of this section during a calendar month in which they discharge no more than fifteen kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e). Discharge of more than fifteen kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification. Subsequent months during which the Industrial User discharges more than such quantities of any hazardous waste do not require additional notification.

(3) In the case of any new regulations under section 3001 of RCRA identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the Industrial User must notify the POTW, the EPA Regional Waste Management Waste Division Director, and State hazardous waste authorities of the discharge of such substance within 90 days of the effective date of such regulations.

(4) In the case of any notification made under this section, the Industrial User shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.

***Submission of reports*** - All written reports to be submitted to the Control Authority shall be addressed as follows:

Pretreatment Coordinator (3WP41)  
U.S. EPA Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

## **D. Confidentiality**

In accordance with 40 CFR Part 2, any information submitted to EPA may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the information will be treated in accordance with the procedures in 40 CFR Part 2 (Public Information). Information and data provided to the EPA which is effluent data shall be available to the public without restriction.

## **E. Upset Provision**

***Effect of an upset*** - An Upset shall constitute an affirmative defense to an action brought for noncompliance with categorical Pretreatment Standards if the requirements listed below are met.

***Conditions necessary for a demonstration of upset*** - An Industrial User who wishes to establish the affirmative defense of Upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (1) An Upset occurred and the Industrial User can identify the cause(s) of the Upset;
- (2) The facility was at the time being operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures;
- (3) The Industrial User has submitted the following information to the POTW and Control Authority within 24 hours of becoming aware of the Upset (if this information is provided orally, a written submission must be provided within five days):
  - (i) A description of the Indirect Discharge and cause of noncompliance;
  - (ii) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue;
  - (iii) Steps being taken and/or planned to reduce, eliminate and prevent recurrence of the noncompliance.

***Burden of proof*** - In any enforcement proceeding the Industrial User seeking to establish the occurrence of an Upset shall have the burden of proof.

***Reviewability of agency consideration of claims of upset*** - In the usual exercise of prosecutorial discretion, Agency enforcement personnel should review any claims that non-compliance was caused by an Upset. No determinations made in the course of the review constitute final Agency action subject to judicial review. Industrial Users will have the opportunity for a judicial determination on any claim of Upset only in an enforcement action brought for noncompliance with categorical Pretreatment Standards.

***User responsibility in case of upset*** - The Industrial User shall control production or all Discharges to the extent necessary to maintain compliance with categorical Pretreatment Standards upon reduction, loss, or failure of its treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost or fails.

## **F. Bypass**

***Bypass not violating applicable Pretreatment Standards or Requirements*** - An Industrial User may allow any bypass to occur which does not cause Pretreatment Standards or Requirements to be violated, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions listed below.



**Notice** - (1) If an Industrial User knows in advance of the need for a bypass, it shall submit prior notice to the Control Authority, if possible at least ten days before the date of the bypass.

(2) An Industrial User shall submit oral notice of an unanticipated bypass that exceeds applicable Pretreatment Standards to the Control Authority within 24 hours from the time the Industrial User becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the Industrial User becomes aware of the bypass. The written submission shall contain a description of the bypass and its cause; the duration of the bypass, including exact dates and times, and, if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the bypass. The Control Authority may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

**Prohibition of bypass** - (1) Bypass is prohibited, and the Control Authority may take enforcement action against an Industrial User for a bypass, unless;

- (i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- (ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
- (iii) The Industrial User submitted notices as required.

(2) The Control Authority may approve an anticipated bypass, after considering its adverse effects, if the Control Authority determines that it will meet conditions (i) - (iii) above.

## **Appendix B**

**Excerpts from EPA's Booklet  
"Notification of Regulated Waste Activity"**



# Appendix A to Part 27. – DHS Chemicals of Interest<sup>1</sup>

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Theft: Minimum Concentration (%)	Theft: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CW/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Acetaldehyde		75-07-0	1.00	10,000						X					
Acetone cyanohydrin, stabilized		75-86-5					ACG	APA							X
Acetyl bromide		506-96-7						APA							X
Acetyl chloride		75-36-5					ACG	APA							X
Acetyl iodine		507-02-8					ACG	APA							X
Acetylene	[Ethyne]	74-86-2	1.00	10,000						X					
Acrolein	[2-Propenal] or Acrylaldehyde	107-02-8	1.00	5,000					X						
Acrylonitrile	[2-Propenenitrile]	107-13-1	1.00	10,000						X					
Acrylyl chloride	[2-Propenoyl Chloride]	814-68-6	1.00	10,000						X					
Allyl alcohol	[2-Propen-1-ol]	107-18-6	1.00	15,000					X						
Allylamine	[2-Propen-1-amine]	107-11-9	1.00	10,000						X					
Allyltrichlorosilane, stabilized		107-37-9					ACG	APA							X
Aluminum (powder)		7429-90-5			ACG	100								X	
Aluminum bromide, anhydrous		7727-15-3					ACG	APA							X
Aluminum chloride, anhydrous		7446-70-0					ACG	APA							X
Aluminum phosphide		20859-73-8					ACG	APA							X
Ammonia (anhydrous)		7664-41-7	1.00	10,000					X						

<sup>1</sup> The acronyms used in this appendix have the following meaning: ACG = A Commercial Grade; APA = A Placarded Amount; CW/CWP = Chemical Weapons/Chemical Weapons Precursors; WME = Weapons of Mass Effect; EXP/IEDP = Explosives/Improvised Explosive Device Precursors

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Theft: Minimum Concentration (%)	Theft: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CWI/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Ammonia (conc. 20% or greater)		7664-41-7	20.00	20,000					X						
Ammonium nitrate, [with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance]		6484-52-2	ACG	5,000	ACG	400				X	X			X	
Ammonium nitrate, solid [nitrogen concentration of 23% nitrogen or greater]		6484-52-2			33.00	2000								X	
Ammonium perchlorate		7790-98-9	ACG	5,000	ACG	400				X	X			X	
Ammonium picrate		131-74-8	ACG	5,000	ACG	400					X			X	
Amyltrichlorosilane		107-72-2					ACG	APA							X
Antimony pentafluoride		7783-70-2					ACG	APA							X
Arsenic trichloride	[Arsenous trichloride]	7784-34-1	1.00	15,000	30.00	2.2			X			X			
Arsine		7784-42-1	1.00	1,000	0.67	15			X				X		
Barium azide		18810-58-7	ACG	5,000	ACG	400					X			X	
1,4-Bis(2-chloroethylthio)-n-butane		142868-93-7			CUM	100g						X			
Bis(2-chloroethylthio)methane		63869-13-6			CUM	100g						X			
Bis(2-chloroethylthiomethyl)ether		63918-90-1			CUM	100g						X			
1,5-Bis(2-chloroethylthio)-n-pentane		142868-94-8			CUM	100g						X			
1,3-Bis(2-chloroethylthio)-n-propane		63905-10-2			CUM	100g						X			





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Chlorine		7782-50-5	1.00	2,500	9.77	500			X				X		
Chlorine dioxide	[Chlorine oxide, (ClO2)]	10049-04-4	1.00	1,000			ACG	APA	X						X
Chlorine monoxide	[Chlorine oxide]	7791-21-1	1.00	10,000						X					
Chlorine pentafluoride		13637-63-3			4.07	15							X		
Chlorine trifluoride		7790-91-2			9.97	45							X		
Chloroacetyl chloride		79-04-9					ACG	APA							X
2-Chloroethylchloro-methylsulfide		2625-76-5			CUM	100g						X			
Chloroform	[Methane, trichloro-]	67-66-3	1.00	20,000					X						
Chloromethyl ether	[Methane, oxybis(chloro-)]	542-88-1	1.00	1,000					X						
Chloromethyl methyl ether	[Methane, chloromethoxy-]	107-30-2	1.00	5,000					X						
1-Chloropropylene	[1-Propene, 1-chloro-]	590-21-6	1.00	10,000						X					
2-Chloropropylene	[1-Propene, 2-chloro-]	557-98-2	1.00	10,000						X					
Chlorosarin	[o-Isopropyl methylphosphonochloridate]	1445-76-7			CUM	100g						X			
Chlorosoman	[o-Pinacolyl methylphosphonochloridate]	7040-57-5			CUM	100g						X			
Chlorosulfonic acid		7790-94-5					ACG	APA							X
Chromium oxychloride		14977-61-8					ACG	APA							X
Crotonaldehyde	[2-Butenal]	4170-30-3	1.00	10,000						X					
Crotonaldehyde, (E)-	[2-Butenal, (E)-]	123-73-9	1.00	10,000						X					
Cyanogen	[Ethanedinitrile]	460-19-5	1.00	10,000	11.67	45				X			X		
Cyanogen chloride		506-77-4	1.00	10,000	2.67	15			X				X		
Cyclohexylamine	[Cyclohexanamine]	108-91-8	1.00	15,000					X						
Cyclohexyltrichlorosilane		98-12-4					ACG	APA							X



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Cyclopropane		75-19-4	1.00	10,000						X					
DF	Methyl phosphonyl difluoride	676-99-3			CUM 100g							X			
Diazodinitrophenol		87-31-0	ACG	5,000	ACG	400					X			X	
Diborane		19287-45-7	1.00	2,500	2.67	15			X				X		
Dichlorosilane	[Silane, dichloro-]	4109-96-0	1.00	10,000	10.47	45				X			X		
N,N-(2-diethylamino)ethanethiol		100-38-9			30.00	2.2						X			
Diethyldichlorosilane		1719-53-5					ACG	APA							X
o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate		78-53-5			30.00	2.2						X			
Diethyleneglycol dinitrate		693-21-0	ACG	5,000	ACG	400					X			X	
Diethyl methylphosphonite		15715-41-0			30.00	2.2						X			
N,N-Diethyl phosphoramidic dichloride		1498-54-0			30.00	2.2						X			
N,N-(2-diisopropylamino)-ethanethiol	N, N-diisopropyl-(beta)-aminoethane thiol	5842-07-9			30.00	2.2						X			
Difluoroethane	[Ethane, 1-1difluoro-]	75-37-6	1.00	10,000						X					
N,N-Diisopropyl phosphoramidic dichloride		23306-80-1			30.00	2.2						X			
1,1-Dimethylhydrazine	[Hydrazine, 1, 1-dimethyl]	57-14-7	1.00	10,000						X					
Dimethylamine	[Methanamine, N-methyl-]	124-40-3	1.00	10,000						X					
N,N-(2-dimethylamino)ethanethiol		108-02-1			30.00	2.2						X			
Dimethyldichlorosilane	[Silane, dichlorodimethyl-]	75-78-5	1.00	10,000			ACG	APA		X					X
N,N-Dimethyl phosphoramidic dichloride	[Dimethylphosphoramido-dichloride]	677-43-0			30.00	2.2						X			
2,2-Dimethylpropane	[Propane, 2,2-dimethyl-]	463-82-1	1.00	10,000						X					

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Dingu	[Dinitroglycoluril]	55510-04-8	ACG	5,000	ACG	400					X			X	
Dinitrogen tetroxide		10544-72-6			3.80	15							X		
Dinitrophenol		25550-58-7	ACG	5,000	ACG	400					X			X	
Dinitroresorcinol		519-44-8	ACG	5,000	ACG	400					X			X	
Diphenyldichlorosilane		80-10-4					ACG	APA							X
Dipicryl sulfide		2217-06-3	ACG	5,000	ACG	400					X			X	
Dipicrylamine [or] Hexyl	[Hexanitrodiphenylamine]	131-73-7	ACG	5,000	ACG	400					X			X	
N,N-(2-dipropylamino)ethanethiol		5842-06-8			30.00	2.2						X			
N,N-Dipropyl phosphoramidic dichloride		40881-98-9			30.00	2.2						X			
Dodecyltrichlorosilane		4484-72-4					ACG	APA							X
Epichlorohydrin	[Oxirane, (chloromethyl)-]	106-89-8	1.00	20,000					X						
Ethane		74-84-0	1.00	10,000						X					
Ethyl acetylene	[1-Butyne]	107-00-6	1.00	10,000						X					
Ethyl chloride	[Ethane, chloro-]	75-00-3	1.00	10,000						X					
Ethyl ether	[Ethane, 1,1-oxybis-]	60-29-7	1.00	10,000						X					
Ethyl mercaptan	[Ethanethiol]	75-08-1	1.00	10,000						X					
Ethyl nitrite	[Nitrous acid, ethyl ester]	109-95-5	1.00	10,000						X					
Ethyl phosphonyl difluoride		753-98-0			CUM	100g						X			
Ethylamine	[Ethanamine]	75-04-7	1.00	10,000						X					
Ethyldiethanolamine		139-87-7			80.00	220						X			
Ethylene	[Ethene]	74-85-1	1.00	10,000						X					
Ethylene oxide	[Oxirane]	75-21-8	1.00	10,000						X					
Ethylenediamine	[1,2-Ethanediamine]	107-15-3	1.00	20,000					X						



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Ethyleneimine	[Aziridine]	151-56-4	1.00	10,000						X					
Ethylphosphonothioic dichloride		993-43-1			30.00	2.2						X			
Ethyltrichlorosilane		115-21-9					ACG	APA							X
Fluorine		7782-41-4	1.00	1,000	6.17	15			X				X		
Fluorosulfonic acid		7789-21-1					ACG	APA							X
Formaldehyde (solution)		50-00-0	1.00	15,000					X						
Furan		110-00-9	1.00	10,000						X					
Germane		7782-65-2			20.73	45							X		
Germanium tetrafluoride		7783-58-6			2.11	15							X		
Guanyl nitrosaminoguanilydene hydrazine			ACG	5,000	ACG	400					X			X	
Hexaethyl tetraphosphate and compressed gas mixtures		757-58-4			33.37	500							X		
Hexafluoroacetone		684-16-2			15.67	45							X		
Hexanitrostilbene		20062-22-0	ACG	5,000	ACG	400					X			X	
Hexolite	[Hexotol]	121-82-4	ACG	5,000	ACG	400					X			X	
Hexyltrichlorosilane		928-65-4					ACG	APA							X
HMX	[Cyclotetramethylene-tetranitramine]	2691-41-0	ACG	5,000	ACG	400					X			X	
HN1 (nitrogen mustard-1)	[Bis(2-chloroethyl)ethylamine]	538-07-8			CUM	100g						X			
HN2 (nitrogen mustard-2)	[Bis(2-chloroethyl)methylamine]	51-75-2			CUM	100g						X			
HN3 (nitrogen mustard-3)	[Tris(2-chloroethyl)amine]	555-77-1			CUM	100g						X			
Hydrazine		302-01-2	1.00	10,000						X					

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Hydrochloric acid (conc. 37% or greater)		7647-01-0	37.00	15,000					X						
Hydrocyanic acid		74-90-8	1.00	2,500					X						
Hydrofluoric acid (conc. 50% or greater)		7664-39-3	50.00	1,000					X						
Hydrogen		1333-74-0	1.00	10,000						X					
Hydrogen bromide (anhydrous)		10035-10-6			95.33	500							X		
Hydrogen chloride (anhydrous)		7647-01-0	1.00	5,000	ACG	500			X				X		
Hydrogen cyanide	[Hydrocyanic acid]	74-90-8			4.67	15							X		
Hydrogen fluoride (anhydrous)		7664-39-3	1.00	1,000	42.53	45			X				X		
Hydrogen iodide, anhydrous		10034-85-2			95.33	500							X		
Hydrogen peroxide (concentration of at least 35%)		7722-84-1			35	400								X	
Hydrogen selenide		7783-07-5	1.00	10,000	0.07	15				X			X		
Hydrogen sulfide		7783-06-4	1.00	10,000	23.73	45			X				X		
Iodine pentafluoride		7783-66-6					ACG	APA							X
Iron, pentacarbonyl-	[Iron carbonyl (Fe (CO)5), (TB5-11)-]	13463-40-6	1.00	10,000						X					
Isobutane	[Propane, 2-methyl]	75-28-5	1.00	10,000						X					
Isobutyronitrile	[Propanenitrile, 2-methyl-]	78-82-0	1.00	20,000					X						
Isopentane	[Butane, 2-methyl-]	78-78-4	1.00	10,000						X					
Isoprene	[1,3-Butadiene, 2-methyl-]	78-79-5	1.00	10,000						X					
Isopropyl chloride	[Propane, 2-chloro-]	75-29-6	1.00	10,000						X					



Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Threat: Minimum Concentration (%)	Threat: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CWI/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Isopropyl chloroformate	[Carbonchloridic acid, 1-methylethyl ester]	108-23-6	1.00	15,000					X						
Isopropylamine	[2-Propanamine]	75-31-0	1.00	10,000						X					
Isopropylphosphonothioic dichloride		1498-60-8			30.00	2.2						X			
Isopropylphosphonyl difluoride		677-42-9				CUM 100g						X			
Lead azide		13424-46-9	ACG	5,000	ACG	400					X			X	
Lead styphnate	[Lead trinitroresorcinate]	15245-44-0	ACG	5,000	ACG	400					X			X	
Lewisite 1	[2-Chlorovinylchloroarsine]	541-25-3				CUM 100g						X			
Lewisite 2	[Bis(2-chlorovinyl)chloroarsine]	40334-69-8				CUM 100g						X			
Lewisite 3	[Tris(2-chlorovinyl)arsine]	40334-70-1				CUM 100g						X			
Lithium amide		7782-89-0					ACG	APA							X
Lithium nitride		26134-62-3					ACG	APA							X
Magnesium (powder)		7439-95-4			ACG	100								X	
Magnesium diamide		7803-54-5					ACG	APA							X
Magnesium phosphide		12057-74-8					ACG	APA							X
MDEA	[Methyldiethanolamine]	105-59-9			80.00	220						X			
Mercury fulminate		628-86-4	ACG	5,000	ACG	400					X			X	
Methacrylonitrile	[2-Propenenitrile, 2-methyl-]	126-98-7	1.00	10,000					X						
Methane		74-82-8	1.00	10,000						X					
2-Methyl-1-butene		563-46-2	1.00	10,000						X					
3-Methyl-1-butene		563-45-1	1.00	10,000						X					
Methyl chloride	[Methane, chloro-]	74-87-3	1.00	10,000						X					

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Threat: Minimum Concentration (%)	Threat: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CMI/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Methyl chloroformate	[Carbonchloridic acid, methyl ester]	79-22-1	1.00	10,000						X					
Methyl ether	[Methane, oxybis-]	115-10-6	1.00	10,000						X					
Methyl formate	[Formic acid Methyl ester]	107-31-3	1.00	10,000						X					
Methyl hydrazine	[Hydrazine, methyl-]	60-34-4	1.00	15,000					X						
Methyl isocyanate	[Methane, isocyanato-]	624-83-9	1.00	10,000					X						
Methyl mercaptan	[Methanethiol]	74-93-1	1.00	10,000	45.00	500				X			X		
Methyl thiocyanate	[Thiocyanic acid, methyl ester]	556-64-9	1.00	20,000					X						
Methylamine	[Methanamine]	74-89-5	1.00	10,000						X					
Methylchlorosilane		993-00-0			20.00	45							X		
Methyldichlorosilane		75-54-7					ACG	APA							X
Methylphenyldichlorosilane		149-74-6					ACG	APA							X
Methylphosphonothioic dichloride		676-98-2			30.00	2.2						X			
2-Methylpropene	[1-Propene, 2-methyl-]	115-11-7	1.00	10,000						X					
Methyltrichlorosilane	[Silane, trichloromethyl-]	75-79-6	1.00	10,000			ACG	APA		X					X
Sulfur mustard (Mustard gas (H))	[Bis(2-chloroethyl)sulfide]	505-60-2			CUM 100g							X			
O-Mustard (T)	[Bis(2-chloroethylthioethyl)ether]	63918-89-8			CUM 100g							X			
Nickel Carbonyl		13463-39-3	1.00	10,000						X					
Nitric acid		7697-37-2	80.00	15,000	68.00	400			X					X	
Nitric oxide	[Nitrogen oxide(NO)]	10102-43-9	1.00	10,000	3.83	15			X				X		
Nitrobenzene		98-95-3			ACG	100								X	
5-Nitrobenzotriazol		2338-12-7	ACG	5,000	ACG	400					X			X	
Nitrocellulose		9004-70-0	ACG	5,000	ACG	400					X			X	



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Nitrogen mustard hydrochloride	[Bis(2-chloroethyl)methylamine hydrochloride]	55-86-7			30.00	2.2						X			
Nitrogen trioxide		10544-73-7			3.83	15							X		
Nitroglycerine		55-63-0	ACG	5,000	ACG	400					X			X	
Nitromannite	[Mannitol hexanitrate, wetted]	15825-70-4	ACG	5,000	ACG	400					X			X	
Nitromethane		75-52-5			ACG	400								X	
Nitrostarch		9056-38-6	ACG	5,000	ACG	400					X			X	
Nitrosyl chloride		2696-92-6			1.17	15							X		
Nitrotriazolone		932-64-9	ACG	5,000	ACG	400					X			X	
Nonyltrichlorosilane		5283-67-0					ACG	APA							X
Octadecyltrichlorosilane		112-04-9					ACG	APA							X
Octolite		57607-37-1	ACG	5,000	ACG	400					X			X	
Octonal		78413-87-3	ACG	5,000	ACG	400					X			X	
Octyltrichlorosilane		5283-66-9					ACG	APA							X
Oleum (Fuming Sulfuric acid)	[Sulfuric acid, mixture with sulfur trioxide]	8014-95-7	1.00	10,000					X						
Oxygen difluoride		7783-41-7			0.09	15							X		
1,3-Pentadiene		504-60-9	1.00	10,000						X					
Pentane		109-66-0	1.00	10,000						X					
1- Pentene		109-67-1	1.00	10,000						X					
2-Pentene, (E)-		646-04-8	1.00	10,000						X					
2-Pentene, (Z)-		627-20-3	1.00	10,000						X					
Pentolite		8066-33-9	ACG	5,000	ACG	400					X			X	
Peracetic acid	[Ethaneperoxic acid]	79-21-0	1.00	10,000						X					

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Perchloromethylmercaptan	[Methanesulfonyl chloride, trichloro-]	594-42-3	1.00	10,000					X						
Perchloryl fluoride		7616-94-6			25.67	45							X		
PETN	[Pentaerythritol tetranitrate]	78-11-5	ACG	5,000	ACG	400					X			X	
Phenyltrichlorosilane		98-13-5					ACG	APA							X
Phosgene	[Carbonic dichloride] or [carbonyl dichloride]	75-44-5	1.00	500	0.17	15			X				X		
Phosphine		7803-51-2	1.00	10,000	0.67	15				X			X		
Phosphorus		7723-14-0			ACG	400								X	
Phosphorus oxychloride	[Phosphoryl chloride]	10025-87-3	1.00	5,000	80.00	220	ACG	APA	X			X			X
Phosphorus pentabromide		7789-69-7					ACG	APA							X
Phosphorus pentachloride		10026-13-8					ACG	APA							X
Phosphorus pentasulfide		1314-80-3					ACG	APA							X
Phosphorus trichloride		7719-12-2	1.00	15,000	3.48	45	ACG	APA	X				X		X
Picrite	[Nitroguanidine]	556-88-7	ACG	5,000	ACG	400					X			X	
Piperidine		110-89-4	1.00	10,000						X					
Potassium chlorate		3811-04-9			ACG	400								X	
Potassium cyanide		151-50-8					ACG	APA							X
Potassium nitrate		7757-79-1			ACG	400								X	
Potassium perchlorate		7778-74-7			ACG	400								X	
Potassium permanganate		7722-64-7			ACG	400								X	
Potassium phosphide		20770-41-6					ACG	APA							X
Propadiene	[1,2-Propadiene]	463-49-0	1.00	10,000						X					
Propane		74-98-6	1.00	60,000						X					
Propionitrile	[Propanenitrile]	107-12-0	1.00	10,000					X						



Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Theft: Minimum Concentration (%)	Theft: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CMI/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Propyl chloroformate	[Carbonchloridic acid, propylester]	109-61-5	1.00	10,000						X					
Propylene	[1-Propene]	115-07-1	1.00	10,000						X					
Propylene oxide	[Oxirane, methyl-]	75-56-9	1.00	10,000						X					
Propyleneimine	[Aziridine, 2-methyl-]	75-55-8	1.00	10,000					X						
Propylphosphonoethioic dichloride		2524-01-8			30.00	2.2						X			
Propylphosphonyl difluoride		690-14-2			CUM 100g							X			
Propyltrichlorosilane		141-57-1					ACG	APA							X
Propyne	[1-Propyne]	74-99-7	1.00	10,000						X					
QL	[o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]	57856-11-8			CUM 100g							X			
RDX	[Cyclotrimethylenetrinitramine]	121-82-4	ACG	5,000	ACG	400					X			X	
RDX and HMX mixtures		121-82-4	ACG	5,000	ACG	400					X			X	
Sarin	[o-Isopropyl methylphosphonofluoridate]	107-44-8			CUM 100g							X			
Selenium hexafluoride		7783-79-1			1.67	15							X		
Sesquimustard	[1,2-Bis(2-chloroethylthio)ethane]	3563-36-8			CUM 100g							X			
Silane		7803-62-5	1.00	10,000						X					
Silicon tetrachloride		10026-04-7					ACG	APA							X
Silicon tetrafluoride		7783-61-1			15.00	45							X		
Sodium azide		26628-22-8			ACG	400								X	
Sodium chlorate		7775-09-9			ACG	400								X	
Sodium cyanide		143-33-9					ACG	APA							X

Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Theft: Minimum Concentration (%)	Theft: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CWI/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Sodium hydrosulfite	[Sodium dithionite]	7775-14-6					ACG	APA							X
Sodium nitrate		7631-99-4			ACG	400								X	
Sodium phosphide		12058-85-4					ACG	APA							X
Soman	[o-Pinacetyl methylphosphonofluoridate]	96-64-0				CUM 100g						X			
Stibine		7803-52-3				0.67	15						X		
Strontium phosphide		12504-16-4						ACG	APA						X
Sulfur dioxide (anhydrous)		7446-09-5	1.00	5,000	84.00	500			X				X		
Sulfur tetrafluoride	[Sulfur fluoride (SF4), (T-4)-]	7783-60-0	1.00	2,500	1.33	15			X				X		
Sulfur trioxide		7446-11-9	1.00	10,000					X						
Sulfuryl chloride		7791-25-5						ACG	APA						X
Tabun	[o-Ethyl-N,N-dimethylphosphoramido-cyanidate]	77-81-6				CUM 100g						X			
Tellurium hexafluoride		7783-80-4			0.83	15							X		
Tetrafluoroethylene	[Ethene, tetrafluoro-]	116-14-3	1.00	10,000						X					
Tetramethyllead	[Plumbane, tetramethyl-]	75-74-1	1.00	10,000					X						
Tetramethylsilane	[Silane, tetramethyl-]	75-76-3	1.00	10,000						X					
Tetranitroaniline		53014-37-2	ACG	5,000	ACG	400					X				
Tetranitromethane	[Methane, tetranitro-]	509-14-8	1.00	10,000						X				X	
Tetrazene	[Guanyl nitrosaminoguanylterazene]	109-27-3	ACG	5,000	ACG	400					X			X	
1H-Tetrazole		288-94-8	ACG	5,000	ACG	400					X			X	
Thiodiglycol	[Bis(2-hydroxyethyl)sulfide]	111-48-8			30.00	2.2						X			
Thionyl chloride		7719-09-7					ACG	APA							X



Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Theft: Minimum Concentration (%)	Theft: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CMI/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Titanium tetrachloride	[Titanium chloride (TiCl <sub>4</sub> ) (T-4)]	7550-45-0	1.00	2,500	13.33	45	ACG	APA	X				X		X
TNT	[Trinitrotoluene]	118-96-7	ACG	5,000	ACG	400					X			X	
Torpex	[Hexotonal]	67713-16-0	ACG	5,000	ACG	400					X			X	
Trichlorosilane	[Silane, trichloro-]	10025-78-2	1.00	10,000			ACG	APA		X					X
Triethanolamine		102-71-6			80.00	220						X			
Triethanolamine hydrochloride		637-39-8			80.00	220						X			
Triethyl phosphite		122-52-1			80.00	220						X			
Trifluoroacetyl chloride		354-32-5			6.93	45							X		
Trifluorochloroethylene	[Ethene, chlorotrifluoro]	79-38-9	1.00	10,000	66.67	500				X			X		
Trimethylamine	[Methanamine, N,N-dimethyl-]	75-50-3	1.00	10,000						X					
Trimethylchlorosilane	[Silane, chlorotrimethyl-]	75-77-4	1.00	10,000			ACG	APA		X					X
Trimethyl phosphite		121-45-9			80.00	220						X			
Trinitroaniline		26952-42-1	ACG	5,000	ACG	400					X			X	
Trinitroanisole		606-35-9	ACG	5,000	ACG	400					X			X	
Trinitrobenzene		99-35-4	ACG	5,000	ACG	400					X			X	
Trinitrobenzenesulfonic acid		2508-19-2	ACG	5,000	ACG	400					X			X	
Trinitrobenzoic acid		129-66-8	ACG	5,000	ACG	400					X			X	
Trinitrochlorobenzene		88-88-0	ACG	5,000	ACG	400					X			X	
Trinitrofluorenone		129-79-3	ACG	5,000	ACG	400					X			X	
Trinitro-meta-cresol		602-99-3	ACG	5,000	ACG	400					X			X	
Trinitronaphthalene		55810-17-8	ACG	5,000	ACG	400					X			X	
Trinitrophenetole		4732-14-3	ACG	5,000	ACG	400					X			X	

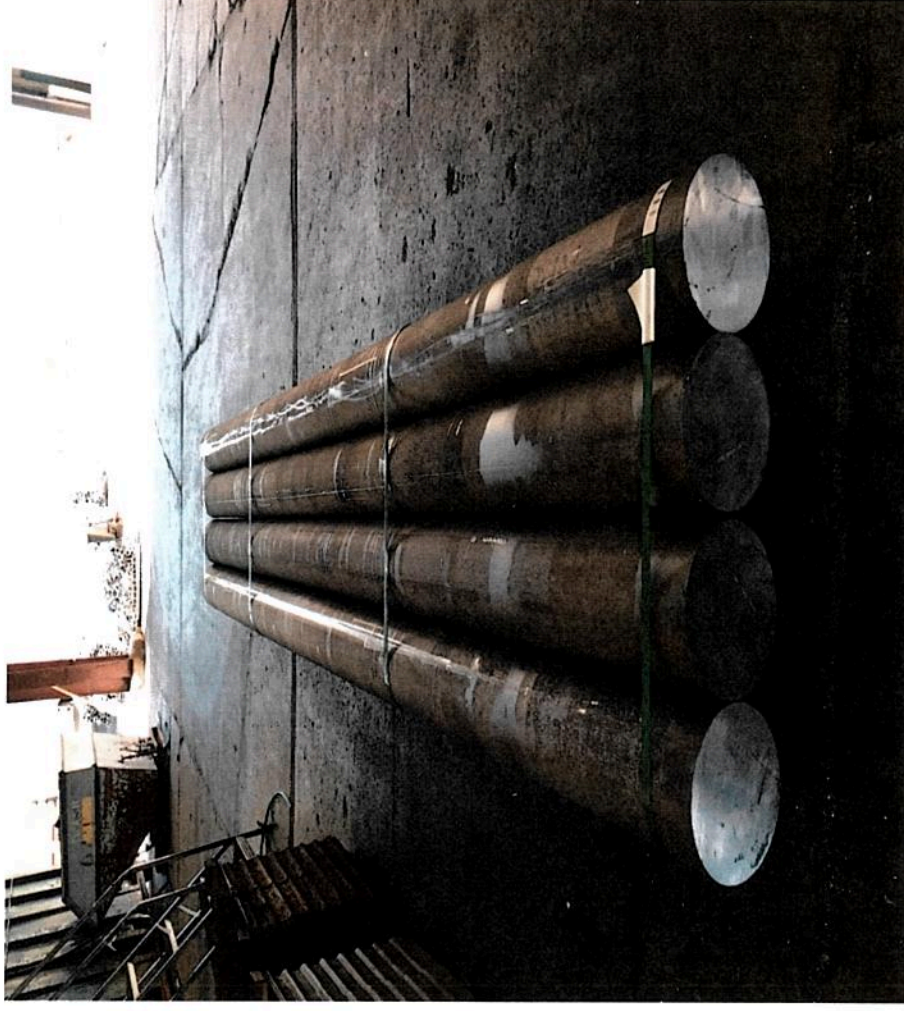
Chemicals of Interest (COI)	Synonym	Chemical Abstract Service (CAS) #	Release: Minimum Concentration (%)	Release: Screening Threshold Quantities (in pounds)	Thrift: Minimum Concentration (%)	Thrift: Screening Threshold Quantities (in pounds unless otherwise noted)	Sabotage: Minimum Concentration (%)	Sabotage: Screening Threshold Quantities	Security Issue: Release - Toxic	Security Issue: Release - Flammables	Security Issue: Release - Explosives	Security Issue: Theft - CWI/CWP	Security Issue: Theft - WME	Security Issue: Theft - EXP/IEDP	Security Issue: Sabotage/Contamination
Trinitrophenol		88-89-1	ACG	5,000	ACG	400					X			X	
Trinitroresorcinol		82-71-3	ACG	5,000	ACG	400					X			X	
Tritonal		54413-15-9	ACG	5,000	ACG	400					X			X	
Tungsten hexafluoride		7783-82-6			7.10	45							X		
Vinyl acetate monomer	[Acetic acid ethenyl ester]	108-05-4	1.00	10,000						X					
Vinyl acetylene	[1-Buten-3-yne]	689-97-4	1.00	10,000						X					
Vinyl chloride	[Ethene, chloro-]	75-01-4	1.00	10,000						X					
Vinyl ethyl ether	[Ethene, ethoxy-]	109-92-2	1.00	10,000						X					
Vinyl fluoride	[Ethene, fluoro-]	75-02-5	1.00	10,000						X					
Vinyl methyl ether	[Ethene, methoxy-]	107-25-5	1.00	10,000						X					
Vinylidene chloride	[Ethene 1,1-dichloro-]	75-35-4	1.00	10,000						X					
Vinylidene fluoride	[Ethene, 1,1-difluoro-]	75-38-7	1.00	10,000						X					
Vinyltrichlorosilane		75-94-5					ACG	APA							X
VX	[o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate]	50782-69-9			CUM 100g							X			
Zinc hydrosulfite	[Zinc dithionite]	7779-86-4					ACG	APA							X



## **Attachment #2 - Inspection Photographs**

## Photograph #1 – Aluminum Billets

The facility starts with a long aluminum billet, like the ones shown in this photograph. These billets are cut into smaller pieces and are then melted down and reshaped in order to make the company's products.





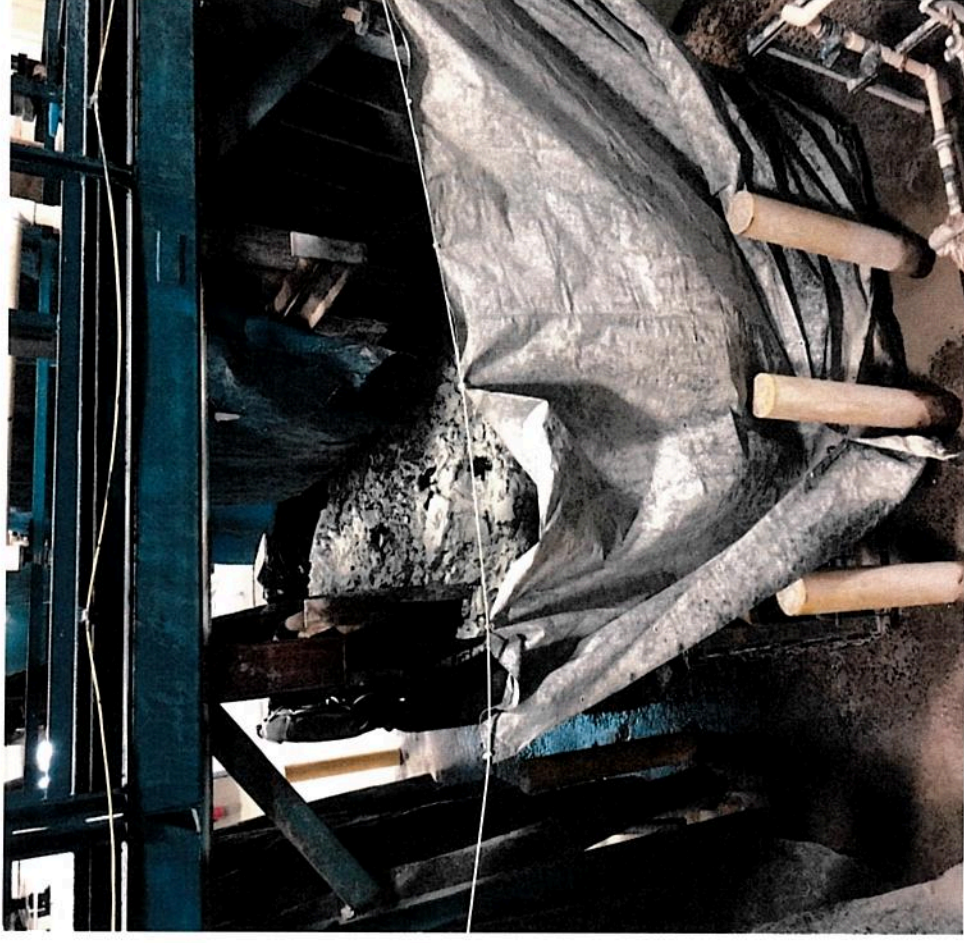
## Photograph #2 – Several of the Mixing Tanks

Sapa neutralizes its wastewater prior to discharge to the sewer. It also adds a polymer to remove solids from it's wastewater. These are two of the mixing tanks that are part of their pre-treatment process.



## Photograph #3 – Solids Removal & Disposal

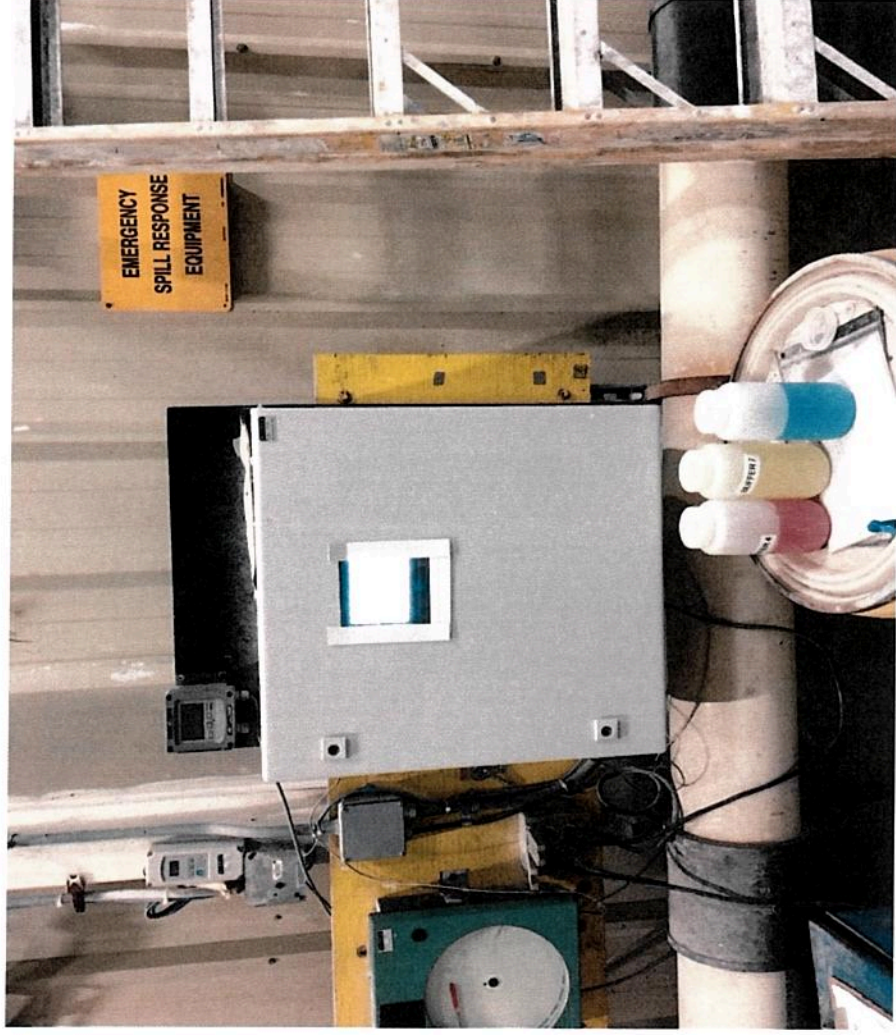
These are some of the solids that Sapa removes in their pre-treatment process. The solids are then shipped to a nearby municipal landfill.





## Photograph #4 – Facility's Two Flow Meters

The facility has two different flow meters, one digital and one graph for tracking their wastewater flow. Notice the emergency spill equipment sign in background.



## Photograph #5 – Facility's ISCO Sampler

This is a photograph of the facility's ISCO sampler for the composite samples prior to the wastewater's discharge to the sewer.





## Photograph #6 – Three pH Buffer bottles

These three pH buffer bottles, at pH 4, 7 and 10, are used to calibrate the facility's pH meter.



## Photograph #7 – Wastewater Sampling Location

This location, in the plastic pipe below the sign, is the spot where the facility staff collect all the wastewater samples prior to discharge to the Mountain Top POTW.

